

~~The Applicant cancels claims 1-10 of record and substitutes  
the following Claims 11-25:~~

11. A method for a plurality of reporters collectively self-organizing to share the task of identifying, judging and recording team-member activity that is causal to team achievement (FIG. 13), comprising:

- Q12*
- a) creating a common perspective among the plurality of reporters by team-member interaction protocol means (FIG. 14) to guide reporters' collective discovery of valued team-member interactions;
  - b) measuring and valuing team members' contributions to the achievement of a team goal;
  - c) recording and processing plural REPORTERS' reports on an aggregate basis and storing and retrieving them from a database; and
  - d) guiding reporters on how to integrate their reporting activities to achieve the goal of providing complete COVERAGE for a CONTEST, when given only partial understanding of how they can achieve said goal.

12. The method of Claim 11, further comprising:

- e) deterring hostile attempts to report false data by security means (FIG. 5).

13. The method of claim 12, further comprising refining reporting skills by re-enforcement learning means (FIG. 1) including:
- a) apprising reporter of reporting accuracy in relation to a standard by report quality feedback means;
  - b) establishing a reporter's reputation for reporting by proficiency skill level means; and
  - c) sharing reporters' knowledge and observations by collaboration means.
14. The method of claim 13, wherein the boundary of the CONTEST is extended to include REPORTERS as participants in the on-going CONTEST by providing PLAYERS with real-time feedback of the effectiveness of their actions, further comprising:
- d) integrating and reporting of CONTEST analysis to CONTEST PLAYERS for their re-enforcement learning to guide their action choices during a CONTEST (FIG. 6).
15. The method of claim 14, wherein PLAYERS rely solely on peer-to-peer collaboration in their pursuit of the team goal and said reporting is accomplished by the PLAYERS themselves with little or no centralized or external control (FIG. 12).

16. The method of claim 15, further comprising developing refinements to existing ASPECTs or discovering additional valuable ASPECTs previously not uncovered, for modification of the reporting measurement rules by collaboration means.

17. A system for reporting the discovery of player activity that is causal to team achievement by identifying, selecting, valuing and integrating group-member actions that are causal to group achievement, wherein the improvement comprises, reporting that is accomplished by plural, reporting agents who collectively self-organize to share the task of identifying, judging and recording team-member activity that is causal to team achievement (FIG. 13), comprising:

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wnt.*

- a) reporting agent means that monitors a contest and identifies and selects valued team-member actions and collaborations within the context of a team-member interaction protocol;
- b) team-member interaction protocol means for creating a common perspective among plural reporters, to guide reporters' collective discovery of valued team-member interactions (FIG. 14);

*A12*

c) means for measuring and valuing team members' contributions to the achievement of a team goal;

d) means for recording and processing plural reports on an aggregate basis and storing and retrieving them from a database;

e) means for guiding reporters on how to integrate their reporting activities to achieve the goal of providing complete COVERAGE for a CONTEST, when given only partial understanding of how they can achieve said goal.

*(cont*

18. The system of Claim 17, further comprising:

f) security means to deter hostile attempts to report false data (FIG. 5).

19. The system of Claim 18, further including re-enforcement learning means (FIG. 1) to enable reporter to refine reporting skills, further comprising:

a) report quality feedback means to apprise REPORTER of reporting accuracy in relation to a standard;

b) SKILL LEVEL means for establishing a REPORTER's reputation for reporting proficiency;

c) collaboration means for REPORTERS to share knowledge and observations.

20. The system of claim 19, wherein the boundary of the contest is extended to include reporters as participants in the on-going contest by providing players with real-time feedback of the effectiveness of their actions, comprising:

d) means for integration and reporting of contest analysis to contest players for their reinforcement learning to guide their action choices during a contest (FIG. 6).

21. The system of claim 20, wherein players rely solely on peer-to-peer collaboration in their pursuit of the team goal, and said reporting is accomplished by the players themselves with little or no centralized or external control (FIG. 12).

22. The system of claim 21, further comprising collaboration means to develop refinements to existing aspects or discover additional valuable aspects previously not uncovered, for modification of the reporting measurement rules.

→ 23. A method for collective intelligence gathering by a group to achieve a pre-defined group goal wherein said group is self-managed and self-trained, with role selection, information discovery, information

reporting, information aggregation and group member performance rating, comprising:

- a) creating a common perspective of the problem domain by group members;
- b) judging the value of observations by group members;
- c) recording and integrating judgments by group members on an aggregate basis, and storing and retrieving them from a database;
- d) valuing group members' contributions to the intelligence gathering task; and
- e) guiding group members on how to integrate their information gathering activities to achieve the goal of providing complete coverage for a problem domain, when given only partial understanding of how they can achieve said goal.

→ 24. A system for collective intelligence gathering by a group to achieve a pre-defined group goal wherein said group is self-managed and self-trained, with role selection, information discovery, information reporting, information aggregation and group member performance rating, comprising:

- a) reporting agent means that monitors a contest and identifies and selects valued team-member actions and

collaborations within the context of a team-member interaction protocol;

b) means for group members to create a common perspective of the problem domain;

c) means for group members to judge the value of their observations;

d) means for group members to record and integrate judgments on an aggregate basis and store and retrieve them from a database;

d) reputation means for valuing group members' contribution to the intelligence gathering task; and

e) means for guiding group members on how to integrate their information gathering activities to achieve the goal of providing complete coverage for a problem domain, when given only partial understanding of how they can achieve said goal.

- 25. The system of claim 24, wherein reporting agent means includes unsupervised neural network software embodied in a computer mechanism capable of identifying valuable action sequences (FIG. 15), comprising:
- a) players, representing group members pursuing a group achievement;